

Overview

Synonyms	IL-1F11, NF-HEV
Description	<p>Interleukin-33 (IL-33) is a proinflammatory cytokine that belongs to the IL-1 family. IL-33 is expressed in a variety of cells, including epithelial and endothelial cells, smooth muscle cells, macrophages and fibroblasts. The primary receptors for IL-33 are ST2 and IL-1 receptor accessory protein (IL-1RAcP), both of which belong to the IL-1 receptor family. IL-33 is localized to the nucleus of resting cells where it binds to chromatin in the H2A-H2B histone complex as a transcriptional suppressor. IL-33 is secreted by cells during injury which induces a T-helper 2 type inflammatory response. Evidence suggests IL-33 plays a role in autoimmune disease. IL-33's interaction with ST2 can drive allergic pathology and IL-33 has been reported to play a role in the development of rheumatoid arthritis and systemic lupus erythematosus.</p> <p>Recombinant human Interleukin-33 (rhIL-33) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 159 amino acids. A fully biologically active molecule, rhIL-33 has a molecular mass of 18.0 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	O95760
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ <0.5ng/mL, measured by a cell proliferation assay using D10S cells, corresponding to a specific activity of > 2× 10 ⁶ units/mg.
Sequence	<p>SITGISPITE YLASLSTYND QSITFALEDE SYEIIYVEDLK KDEKKDKVLL SYYESQHPSN ESGDGVGDKM LMVTLSPTKD FWLHANNKEH SVELHKCEKP LPDQAFFVLH NMHSNCVSFE CKTDPGVFIG VKDNHLALIK VDSSSENLC TE NILFKLSET</p>

Properties

Measured Molecular Weight	18.0 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analysis.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Interleukin-33 (rhIL-33) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-33 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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